Index of Claims



Application/Control No.

10/769,033 Examiner

James S. Bergin

Applicant(s)/Patent under Reexamination

JOHNSON, RICHARD JOHN Art Unit

3641

Rejected **Allowed** 

(Through numeral) Cancelled Restricted

Non-Elected N

Interference

**Appeal** Α 0 Objected

|       | -:                                                                                                                                                       | Det                                              |                     |          |          |              |                                                  |              |            |                                                  |  |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------|----------|----------|--------------|--------------------------------------------------|--------------|------------|--------------------------------------------------|--|
| Claim |                                                                                                                                                          | Date                                             |                     |          |          |              |                                                  |              |            |                                                  |  |
| Final | Original                                                                                                                                                 | 12/8/05                                          | 5/27/06             | 1/6/07   |          |              |                                                  |              |            |                                                  |  |
|       | 1_                                                                                                                                                       | +                                                | 1                   | =        | $\vdash$ |              | $\vdash$                                         | 1-           | 1          | t                                                |  |
|       | 12                                                                                                                                                       |                                                  | 1                   | $\vdash$ |          | 1            |                                                  | T            | 1          | T                                                |  |
|       | В                                                                                                                                                        | П                                                | 1                   |          | Г        |              |                                                  | $\top$       |            |                                                  |  |
|       |                                                                                                                                                          | П                                                | 1                   |          |          |              |                                                  |              |            |                                                  |  |
|       | 5                                                                                                                                                        | $\Box$                                           | V                   |          |          |              | ľ                                                |              |            |                                                  |  |
|       | 6                                                                                                                                                        |                                                  | V                   | =        |          |              |                                                  |              |            | L                                                |  |
|       | 1                                                                                                                                                        | Н                                                | N                   | _        |          | <u> </u>     | _                                                |              |            |                                                  |  |
| L     | <u> </u>                                                                                                                                                 | Н                                                | N                   | <u> </u> | <u> </u> | <u> </u>     | <u> </u>                                         | ـــ          | ↓_         | ▙                                                |  |
|       | 9                                                                                                                                                        | Н                                                | N                   |          | -        | <del> </del> |                                                  | ╀            | ╀-         | Ͱ                                                |  |
|       | 10                                                                                                                                                       | Н                                                | N                   | =        | ⊢        | ├            | ╁                                                | -            | -          | ├                                                |  |
|       | 1/6                                                                                                                                                      | H                                                | N                   | $\vdash$ | ⊢        | $\vdash$     | ╁                                                | $\vdash$     | ╁          | ╁                                                |  |
|       | 13                                                                                                                                                       | H                                                | 1                   | =        | $\vdash$ | $\vdash$     | $\vdash$                                         | $\vdash$     | $\vdash$   | $\vdash$                                         |  |
|       | 14                                                                                                                                                       | H                                                | V                   | =        | T        |              | Т                                                | $\vdash$     | $\vdash$   | <del>                                     </del> |  |
|       | 15                                                                                                                                                       | Ħ                                                | 1                   | =        |          |              | ı                                                | T            |            | 1                                                |  |
|       | 16                                                                                                                                                       | $\prod$                                          |                     |          |          |              |                                                  |              |            |                                                  |  |
|       | 17                                                                                                                                                       | $\Box$                                           |                     |          |          |              |                                                  |              |            |                                                  |  |
|       | 18                                                                                                                                                       | П                                                | 1                   | =        |          |              |                                                  |              |            |                                                  |  |
|       | 19                                                                                                                                                       |                                                  | N                   |          |          | L            | L                                                |              |            | L                                                |  |
|       | 20                                                                                                                                                       | Ш                                                | N                   |          | _        | _            | _                                                | <u> </u>     | <u> </u>   | <u> </u>                                         |  |
|       | 21                                                                                                                                                       | Н                                                | 1                   | =        | ┡        | <u> </u>     | 1_                                               | <u> </u>     | _          | ┞                                                |  |
|       | 22                                                                                                                                                       | Н                                                | 1                   | =        | <u> </u> | _            | ⊢                                                | ┡            | ┡          | <u> </u>                                         |  |
|       | 23                                                                                                                                                       | H                                                | 1                   | =        | -        | -            | ⊢                                                | ┢            | ┢          | <u> </u>                                         |  |
|       | 25                                                                                                                                                       | ļ-                                               | V                   | -        | ┝        | -            | ┢                                                | ╁            | ┢          | ┢                                                |  |
|       | 26                                                                                                                                                       | ┢                                                | -                   | <u> </u> | -        | -            | <del>                                     </del> | ╁            | ╂━         | ╁╌╴                                              |  |
|       | 27                                                                                                                                                       | -                                                | -                   | _        |          | $\vdash$     | <del>                                     </del> | ╁            | $\vdash$   | ╁                                                |  |
|       | 28                                                                                                                                                       | <del>                                     </del> |                     | _        | _        |              |                                                  |              | $\vdash$   |                                                  |  |
|       | 29                                                                                                                                                       |                                                  |                     |          |          | $\vdash$     | Π                                                | $\vdash$     | <u> </u>   |                                                  |  |
|       | 30                                                                                                                                                       |                                                  |                     |          |          |              |                                                  |              |            |                                                  |  |
|       | 31                                                                                                                                                       |                                                  |                     |          |          |              |                                                  |              |            |                                                  |  |
|       | 32                                                                                                                                                       | <u> </u>                                         | Ш                   |          |          | <u> </u>     | L.                                               | L            | _          | _                                                |  |
|       | 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35 |                                                  | Ш                   |          |          | <u> </u>     | <u> </u>                                         | ļ            | <b>!</b> — | <u> </u>                                         |  |
|       | 34                                                                                                                                                       | -                                                |                     | _        | <u> </u> |              | -                                                | <del> </del> | -          | ├-                                               |  |
|       | 36                                                                                                                                                       | -                                                | Н                   | _        | —        | $\vdash$     | -                                                | -            | $\vdash$   | $\vdash$                                         |  |
|       | 36<br>37<br>38                                                                                                                                           | -                                                |                     | _        | _        | ⊢            | +-                                               |              | -          | $\vdash$                                         |  |
|       | 38                                                                                                                                                       | _                                                | $\vdash$            |          | _        | $\vdash$     | $\vdash$                                         |              | $\vdash$   |                                                  |  |
|       | 39                                                                                                                                                       |                                                  | H                   |          |          |              |                                                  | -            | Ι-         |                                                  |  |
|       | 40                                                                                                                                                       |                                                  |                     |          |          |              |                                                  | Г            | Г          | ┢                                                |  |
|       | 41                                                                                                                                                       |                                                  |                     |          |          |              |                                                  |              |            |                                                  |  |
|       | 42                                                                                                                                                       |                                                  |                     |          | _        |              |                                                  |              |            |                                                  |  |
|       | 43                                                                                                                                                       |                                                  | Ш                   |          |          |              | <u> </u>                                         | L            | L          |                                                  |  |
|       | 44                                                                                                                                                       |                                                  | $\Box$              | _        | _        | _            | _                                                | _            | $\sqcup$   |                                                  |  |
|       | 45                                                                                                                                                       |                                                  |                     |          |          |              | <u> </u>                                         | <u> </u>     | <u> </u>   | Ļ.,                                              |  |
|       | 46                                                                                                                                                       | _                                                |                     | _        |          |              | <u> </u>                                         | H            | -          | <u> </u>                                         |  |
|       | 47                                                                                                                                                       |                                                  | $\vdash$            | -        |          |              | _                                                | H            | <u> </u>   | Н                                                |  |
|       | 48<br>49                                                                                                                                                 | _                                                | $\vdash \downarrow$ | $\dashv$ |          |              | <u> </u>                                         | $\vdash$     | $\vdash$   | $\vdash$                                         |  |
|       | 50                                                                                                                                                       | _                                                | -                   | -        | _        | -            | <u> </u>                                         | <u> </u>     |            |                                                  |  |
|       | JUI                                                                                                                                                      |                                                  |                     | - 1      | - 1      |              |                                                  | 1 .          |            |                                                  |  |

| Ci                                         | Γ        | Date     |                |               |          |                |          |                                     |                                                  |          |  |
|--------------------------------------------|----------|----------|----------------|---------------|----------|----------------|----------|-------------------------------------|--------------------------------------------------|----------|--|
| <u>                                   </u> | t        | Т        | Т              | T             | <u> </u> | Ť              | Т        | Т                                   | Г                                                |          |  |
| Final                                      | Original |          |                |               |          |                |          |                                     |                                                  |          |  |
| ļ ilī                                      | Ö        |          |                |               |          |                |          |                                     |                                                  |          |  |
|                                            | 51       | t        | T              | 1             | T        |                | ✝        | T                                   | T                                                | T        |  |
|                                            | 51<br>52 | T        | T              | $\vdash$      | 1        |                |          | T                                   | 一                                                | 1        |  |
|                                            | 53       | t        | T              | 1             | $\vdash$ | ✝              | $\vdash$ | T                                   |                                                  | T        |  |
|                                            | 54       | T        |                |               | Т        |                |          | T                                   |                                                  |          |  |
|                                            | 54<br>55 |          |                | 1             | T        |                |          | $\vdash$                            | 1                                                | T        |  |
|                                            | 56       |          |                | Г             | Ι'''     |                |          | П                                   |                                                  | Π        |  |
|                                            | 57       |          | П              | Г             | Π        | T              | П        | Ī                                   |                                                  |          |  |
|                                            | 58       |          |                |               |          |                |          |                                     |                                                  |          |  |
|                                            | 59       |          |                |               |          |                |          |                                     |                                                  |          |  |
|                                            | 60       |          |                |               |          |                | ľ        |                                     |                                                  |          |  |
|                                            | 61       |          |                | L             |          |                |          | L                                   | L                                                |          |  |
|                                            | 62<br>63 |          | $\Box$         | L             |          |                | $\Box$   | 匚                                   |                                                  |          |  |
|                                            | 63       | 匚        |                |               |          |                | L        |                                     | Ĺ                                                |          |  |
|                                            | 64       | L        | $oxed{oxed}$   | _             | 1_       | <u> </u>       | Щ.       | <u> </u>                            | $\perp$                                          | $\Box$   |  |
|                                            | 65       |          | _              | _             | L.       |                | <u> </u> | <u> </u>                            | <u> </u>                                         | <u></u>  |  |
|                                            | 66       | L        | 上              | <u> </u>      | ļ        | ļ              | L        | <u> </u>                            | _                                                | _        |  |
|                                            | 67       |          | _              |               | _        | _              | L        | <u> </u>                            | L                                                |          |  |
|                                            | 68       | _        | _              | <u> </u>      | <u> </u> | <u> </u>       | ļ        | <u> </u>                            | L                                                | _        |  |
|                                            | 69       | <u> </u> | ļ              | <u> </u>      | <u> </u> | _              |          | _                                   | <u> </u>                                         |          |  |
| ļ                                          | 70       | <u> </u> | ļ              | <u> </u>      | <u> </u> | L              | _        | _                                   | <u> </u>                                         |          |  |
|                                            | 71       | Ŀ        | _              | _             | <u> </u> | <u> </u>       | L        | <u> </u>                            | <u> </u>                                         | <u> </u> |  |
| -                                          | 72       | ┞        | ⊢              | <u> </u>      | ┡        | <b>├</b>       | _        | ┡                                   | ├                                                | <u> </u> |  |
| -                                          | 73       | <u> </u> | <u> </u>       | ├             | ╀        | <del> </del> — | <u> </u> | ├                                   | <u>⊢</u>                                         | <u> </u> |  |
| <u> </u>                                   | 74<br>75 | ├        | H              | ┝             | ⊢        | ┢              | ⊢        | ┢                                   | -                                                | -        |  |
|                                            | 76       | ├        | -              | -             | -        | -              | ⊢        | ⊢                                   | $\vdash$                                         | ⊢        |  |
| $\vdash$                                   | 76<br>77 | ┢        | ⊢              | ╀             | ├        | ╁              | ├        | ├                                   | ├                                                | ┝        |  |
| -                                          | 78       | ┢╾       | -              | ┢             | -        | ┢              | -        | ┢╌                                  |                                                  | ⊢        |  |
|                                            | 79       | $\vdash$ | $\vdash$       | H             | $\vdash$ | ┢              |          | ┢                                   |                                                  | $\vdash$ |  |
| $\vdash$                                   | 80       | $\vdash$ | $\vdash$       | <del> </del>  | ┢┈       | $\vdash$       | $\vdash$ | ┢                                   | <del>                                     </del> |          |  |
|                                            | 81       | $\vdash$ | _              | Ι             | $\vdash$ | $\vdash$       |          | ┢                                   | -                                                | $\vdash$ |  |
|                                            | 82       |          |                | H             | <u> </u> | t              |          | r                                   |                                                  |          |  |
|                                            | 82<br>83 | _        | <del> </del> - |               | $\vdash$ | <u> </u>       |          | -                                   | <del>                                     </del> | $\vdash$ |  |
|                                            | 84       | Γ        | Г              | $\overline{}$ | Π        | Г              | Г        |                                     |                                                  |          |  |
|                                            | 85       | Г        |                | Г             | Г        | 1              | Г        | Γ                                   | Γ                                                | Γ        |  |
|                                            | 86       |          |                |               |          |                |          |                                     |                                                  |          |  |
|                                            | 87       |          |                |               |          | L.             |          |                                     |                                                  |          |  |
|                                            | 88       |          |                |               |          |                |          |                                     |                                                  |          |  |
|                                            | 89       |          |                |               |          |                |          |                                     |                                                  |          |  |
|                                            | 90       |          |                |               |          |                |          |                                     |                                                  |          |  |
|                                            | 91       |          |                |               |          |                | 匚        | $\Box$                              |                                                  | L        |  |
| <u> </u>                                   | 92       | _        | _              | <u> </u>      | <u> </u> |                |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |                                                  |          |  |
| <u> </u>                                   | 93       | _        | _              |               | <u> </u> | <u> </u>       | L_       | Щ                                   | Ш                                                | L.       |  |
|                                            | 94       |          |                | <u> </u>      | <u> </u> |                | <u> </u> | Щ                                   | Ш                                                | Ш        |  |
|                                            | 95       | Ш        | Ŀ              | <u> </u>      | L        | <u> </u>       | L        | $\vdash$                            | Ш                                                |          |  |
|                                            | 96       | $\vdash$ | L.             | <u> </u>      | <u> </u> | _              | _        | L_                                  | Щ                                                |          |  |
| -                                          | 97       | <u> </u> |                | <u> </u>      | $\vdash$ | $\vdash$       |          | _                                   | Щ                                                |          |  |
|                                            | 98       |          | _              | -             |          | $\vdash$       |          |                                     | -                                                | $\dashv$ |  |
|                                            | 99       | $\vdash$ | _              | $\vdash$      | -        | $\vdash$       |          | -                                   | -                                                |          |  |
|                                            | 100      |          |                |               |          |                |          |                                     |                                                  |          |  |

| Cla      | aim                             | n Date       |                    |                                                  |                                                  |              |                                                  |                   |                                                  |                 |  |  |
|----------|---------------------------------|--------------|--------------------|--------------------------------------------------|--------------------------------------------------|--------------|--------------------------------------------------|-------------------|--------------------------------------------------|-----------------|--|--|
|          |                                 | T            |                    |                                                  |                                                  |              |                                                  |                   |                                                  |                 |  |  |
| Final    | Original                        |              |                    |                                                  |                                                  |              |                                                  |                   |                                                  |                 |  |  |
|          | 101<br>102                      |              | Т                  |                                                  | П                                                |              |                                                  | Π                 |                                                  |                 |  |  |
|          | 102                             |              |                    |                                                  | Τ                                                | Г            |                                                  |                   |                                                  |                 |  |  |
|          | 103                             |              |                    |                                                  |                                                  |              |                                                  |                   |                                                  |                 |  |  |
|          | 104                             | L            | $oxedsymbol{oxed}$ |                                                  |                                                  | $oxed{oxed}$ |                                                  |                   | 乚                                                |                 |  |  |
|          | 105<br>106                      |              |                    |                                                  |                                                  |              |                                                  |                   |                                                  |                 |  |  |
|          | 106                             | ┖            | <u> </u>           | <u> </u>                                         | <u> </u>                                         | <u> </u>     | <u> </u>                                         | L                 |                                                  | L               |  |  |
| <u> </u> | 107                             | ┞_           | _                  | ┖                                                | _                                                | _            | _                                                | ╙                 | _                                                | $oxed{oxed}$    |  |  |
|          | 108                             | _            | $oxed{oxed}$       | <u> </u>                                         | _                                                |              | _                                                | <u> </u>          | <u>_</u>                                         | _               |  |  |
|          | 109                             |              | ╙                  | _                                                | <u> </u>                                         |              | ļ                                                | <u> </u>          | ļ                                                | _               |  |  |
|          | 110                             | _            | ļ                  | <u> </u>                                         | <u> </u>                                         | <u> </u>     | ļ                                                | L                 | _                                                |                 |  |  |
| <u> </u> | 111                             | <u> </u>     | ļ                  | ــــ                                             | _                                                | ┞            | _                                                | ļ                 | ┞                                                | <u> </u>        |  |  |
|          | 112                             | <u> </u>     | ┞                  | ╀                                                | ├                                                | ├            | ┞                                                | ╀                 | ╄                                                | <u> </u>        |  |  |
|          | 113                             | <b>!</b> —   | 1                  |                                                  | -                                                | $\vdash$     | ├                                                | ₩                 | ├-                                               | $\vdash$        |  |  |
|          | 114                             | ┢            | ⊢                  | ⊢                                                | ⊢                                                | ⊢            | ⊢                                                | ⊢                 | ┢                                                | -               |  |  |
|          | 115<br>116                      | -            | -                  | ├-                                               | -                                                | $\vdash$     | ⊢                                                | ⊢                 | ⊢                                                | -               |  |  |
|          | 117                             | <u> </u>     | ├                  | ╁                                                | ├                                                | ╁            | ╁                                                | ╁                 | -                                                | -               |  |  |
|          | 118                             | -            | ┝                  | ╁                                                | $\vdash$                                         | ╁            | ┢                                                | ⊢                 | ┢                                                | H               |  |  |
|          | 110                             | -            | ╁                  | $\vdash$                                         | ⊢                                                | ╁╌           | $\vdash$                                         | $\vdash$          | ╁                                                |                 |  |  |
|          | 119<br>120<br>121               | $\vdash$     | ╁                  | ╁                                                | ╁                                                | $\vdash$     | ┢                                                | ┢                 | ┢                                                | -               |  |  |
| <u> </u> | 121                             | $\vdash$     | ╁                  |                                                  | $\vdash$                                         | $\vdash$     | $\vdash$                                         |                   | 1                                                | $\vdash$        |  |  |
| _        | 122                             | ┢            | $\vdash$           | <del>                                     </del> | <del>                                     </del> | <del> </del> | ╁                                                | ╁                 | ╁                                                |                 |  |  |
|          | 122<br>123<br>124               | $\vdash$     | H                  | 1                                                | $\vdash$                                         | H            | $\vdash$                                         | $\vdash$          | t                                                |                 |  |  |
|          | 124                             | -            | 1-                 | 1-                                               | 1-                                               |              | <del>                                     </del> | 1                 | <del>                                     </del> |                 |  |  |
|          | 125                             | $\vdash$     | T                  | $\vdash$                                         |                                                  |              | $\vdash$                                         | T                 | T                                                |                 |  |  |
|          | 125<br>126                      |              |                    |                                                  |                                                  |              |                                                  |                   |                                                  |                 |  |  |
|          | 127                             | П            | П                  |                                                  |                                                  |              |                                                  |                   |                                                  |                 |  |  |
|          | 128                             |              |                    | Γ                                                |                                                  |              |                                                  |                   | Γ                                                | -               |  |  |
|          | 129                             |              |                    |                                                  |                                                  | L            |                                                  |                   |                                                  |                 |  |  |
|          | 127<br>128<br>129<br>130<br>131 |              |                    |                                                  |                                                  |              |                                                  |                   |                                                  |                 |  |  |
|          | 131                             |              |                    |                                                  |                                                  |              | L                                                |                   |                                                  |                 |  |  |
|          | 132                             | _            | 匚                  | _                                                |                                                  |              |                                                  | ┖                 | _                                                |                 |  |  |
|          | 133<br>134                      |              | <u> </u>           | oxdot                                            | L                                                | _            | _                                                | $ldsymbol{f eta}$ | _                                                | Ш               |  |  |
|          | 134                             | <u> </u>     | <u> </u>           | <u> </u>                                         |                                                  | <u> </u>     | <u> </u>                                         | L_                | <u> </u>                                         | $\vdash$        |  |  |
|          | 135                             | <u> </u>     | <u> </u>           | -                                                | _                                                | ⊢            | $\vdash$                                         | -                 | _                                                | Н               |  |  |
| <u> </u> | 136<br>137                      | $\vdash$     |                    | -                                                | -                                                | ⊢            | $\vdash$                                         | _                 | -                                                | Н               |  |  |
|          | 13/                             | <del> </del> | $\vdash$           |                                                  |                                                  | $\vdash$     | <del> </del>                                     | <del> </del>      | ├-                                               | $\vdash$        |  |  |
|          | 138<br>139                      | <u> </u>     |                    | <del> </del>                                     | H                                                | $\vdash$     | $\vdash$                                         | <del> -</del>     | ├-                                               | Н               |  |  |
|          | 140                             | -            | ├-                 | -                                                | ⊢                                                | $\vdash$     | -                                                | ├                 |                                                  | $\vdash\vdash$  |  |  |
|          | 141                             | -            | ⊢                  | $\vdash$                                         | $\vdash$                                         | ┝            | ┢                                                | <del> </del>      | $\vdash$                                         | $\vdash \vdash$ |  |  |
|          | 142                             |              | $\vdash$           | $\vdash$                                         | $\vdash$                                         | $\vdash$     | ├-                                               | $\vdash$          | -                                                | $\vdash$        |  |  |
|          | 143                             | -            | $\vdash$           |                                                  | <del>                                     </del> | $\vdash$     | $\vdash$                                         | $\vdash$          | $\vdash$                                         | $\dashv$        |  |  |
|          | 144                             | -            | -                  | -                                                | $\vdash$                                         | $\vdash$     | <del> </del>                                     | $\vdash$          | <del>                                     </del> | $\vdash \vdash$ |  |  |
|          | 145                             |              | -                  |                                                  |                                                  | -            | -                                                | $\vdash$          | $\vdash$                                         | H               |  |  |
|          | 146                             |              |                    |                                                  | $\vdash$                                         |              | $\vdash$                                         | $\vdash$          |                                                  | $\vdash$        |  |  |
|          | 147                             |              | -                  |                                                  |                                                  |              | <u> </u>                                         | Г                 |                                                  | $\sqcap$        |  |  |
|          | 148                             |              | Т                  |                                                  |                                                  |              |                                                  |                   |                                                  | $\vdash$        |  |  |
|          | 149                             |              |                    |                                                  |                                                  |              |                                                  |                   |                                                  | П               |  |  |
|          | 150                             |              |                    |                                                  |                                                  |              |                                                  |                   |                                                  |                 |  |  |